



Pacific Power |
Rocky Mountain Power
825 NE Multnomah, Suite 1800
Portland, Oregon 97232

Electronically filed October 13, 2021

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, D.C. 20426

**Subject: Saddle Mountains Pumped Storage Project
Application for Preliminary Permit**

Dear Ms. Bose:

PacifiCorp is pleased to submit to the Federal Energy Regulatory Commission (Commission) the attached application for a preliminary permit for the proposed Saddle Mountains Pumped Storage Project (Project). PacifiCorp is submitting this application to secure and maintain priority of application for a license for the Project while undertaking the studies necessary to determine its feasibility.

This letter and its enclosures have been filed electronically. The security classification of each component in this packet is shown in the enclosure table. Should the Commission have any questions concerning these documents, please contact Tim Hemstreet by phone at (503) 813-6170, or by email at tim.hemstreet@pacificorp.com.

Sincerely,

Mark Sturtevant

Mark Sturtevant (Oct 12, 2021 11:09 PDT)

Mark A. Sturtevant
Vice President, Renewable Resources

MAS:TH:BB

Encl:	Letter – Public
	Application for Preliminary Permit – Public
eFile:	Via eLibrary at www.ferc.gov

SADDLE MOUNTAINS PUMPED STORAGE HYDROPOWER PROJECT

APPLICATION FOR PRELIMINARY PERMIT

INITIAL STATEMENT, GENERAL CONTENT, AND EXHIBITS 1 THROUGH 3



October 2021

TABLE OF CONTENTS

TABLE OF CONTENTS i

ACRONYMS AND ABBREVIATIONS..... iii

INITIAL STATEMENT..... 1

GENERAL CONTENT..... 3

SUBSCRIPTION AND VERIFICATION..... 5

EXHIBIT 1 PROJECT DESCRIPTION 6

1.1 GENERAL PROJECT DESCRIPTION6

1.2 RESERVOIRS6

1.2.1 Lower Reservoir 6

1.2.2 Proposed Upper Reservoir 7

1.3 EXISTING OR PROPOSED TRANSMISSION LINES.....7

1.4 GENERATING EQUIPMENT AND CAPACITIES7

1.4.1 Generators..... 7

1.4.2 Penstocks/Tunnels 7

1.4.3 Powerhouse/Pump Station 8

1.5 RESERVOIR SPILLWAYS8

1.6 AVERAGE ANNUAL ENERGY PRODUCTION.....8

1.7 LANDS OF THE UNITED STATES8

1.8 REGIONAL WATER SOURCES10

1.9 PUBLIC INTEREST.....10

EXHIBIT 2 DESCRIPTION OF STUDIES 11

2.1 STUDY PROCESS11

2.2 PRELIMINARY STUDIES TO BE COMPLETED.....11

2.2.1 Cultural Resources..... 11

2.2.2 Energy Needs and Economic Analysis..... 11

2.2.3 Engineering..... 12

2.2.4 Fisheries Studies 12

2.2.5 Sensitive Plants..... 12

2.2.6 Terrestrial and Avian Species..... 12

2.2.7 Water Quality..... 12

2.2.8 Geotechnical 12

2.2.9 Land Survey 13

2.2.10 Recreation 13

2.2.11 Transportation 13

2.2.12 Transmission Interconnection Study 13

2.2.13 Visual Resources..... 13

2.3 ACCESS TO CONDUCT STUDIES13

2.4 NEW DAM CONSTRUCTION.....13

2.5 SCHEDULE FOR STUDIES14

2.6 STUDY COSTS14

2.7 FINANCIAL SOURCES15

EXHIBIT 3 PROJECT MAPS..... 16

FERC Form 587 17

ACRONYMS AND ABBREVIATIONS

ac-ft—acre feet

BLM—Bureau of Land Management

CFR—Code of Federal Regulations

FERC—Federal Energy Regulatory Commission, or Commission

FPA—Federal Power Act

ft—feet

FWS—U.S. Fish and Wildlife Service

GWh—gigawatt-hour

kV—kilovolt

msl—mean sea level

MW—megawatt

MWh—megawatt-hour

PLSS—Public Land Survey System

USBR—U.S. Bureau of Reclamation

INITIAL STATEMENT¹**BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION***APPLICATION FOR PRELIMINARY PERMIT*

(1) PacifiCorp (Applicant), a regulated electric utility privately held by Berkshire Hathaway Energy Company, applies to the Federal Energy Regulatory Commission (Commission or FERC) for a preliminary permit for the proposed Saddle Mountains Pumped Storage Project (Project), as described in the attached exhibits. This application is made in order that PacifiCorp may secure and maintain priority of application for a license for the Project under Part I of the Federal Power Act (FPA) while obtaining the data and performing the acts required to determine the feasibility of the Project and to support an application for a license.

(2) The location of the Project is:

State or territory:	Washington
County:	Grant County
Township or nearby town:	Beverly
Stream or other body of water:	Off channel, near Crab Creek and Columbia River

(3) The exact name and business address of the Applicant are:

PacifiCorp
825 NE Multnomah, Suite 2000
Portland, OR 97232

The exact name and business address of each person authorized to act as agent for the Applicant in this application are:

Tim Hemstreet, Managing Director, Renewable Energy Development
PacifiCorp
825 NE Multnomah, Suite 1800
Portland, OR 97232
Email: Tim.Hemstreet@pacificorp.com
Phone: (503) 813-6170

Dustin Till, Assistant General Counsel
PacifiCorp
825 NE Multnomah, Suite 2000
Portland, OR 97232
Email: Dustin.Till@pacificorp.com
Phone: (503) 813-6589

¹ 18 Code of Federal Regulations (CFR) §4.81(a)

(4) The Applicant, PacifiCorp, is a domestic corporation and is not claiming municipal preference under section 7(a) of the FPA. PacifiCorp, a corporation located in Portland, Oregon, is organized under the laws of the State of Oregon and, as such, is qualified under § 4(e) of the FPA to hold hydroelectric licenses issued under Part I of the FPA.

(5) The proposed term of the requested permit is 48 months.

(6) The proposed Project would be about 7 miles east of Beverly, Washington. No dams, spillways, waterways, powerhouses, tailraces, or other structures currently exist at the proposed site of the Saddle Mountains Pumped Storage Project. PacifiCorp is researching water rights in the area for use in construction, filling and maintaining water for the Project.

GENERAL CONTENT²

(1) Identify every person, citizen, association of citizens, domestic corporation, municipality, or state that has or intends to obtain and will maintain any proprietary right necessary to construct, operate, or maintain the Project:

PacifiCorp
825 NE Multnomah, Suite 2000
Portland, OR 97232

(2) Identify (providing names and mailing addresses):

(i) Every county in which any part of the project, and any Federal facilities that would be used by the project, would be located:

Grant County
35 C Street NW
PO Box 37
Ephrata, WA 98823

(ii) Every city, town, or similar local political subdivision:

(A) In which any part of the project, and any Federal facilities that would be used by the project, would be located;

The Project would not be located within the boundaries of any city, town, or local political subdivision.

(B) That has a population of 5,000 or more people and is located within 15 miles of the project dam;

The Project would not be located within 15 miles of any city or town that has a population of 5,000 or more people.

(iii) Every irrigation district, drainage district, or similar special purpose political subdivision:

(A) In which any part of the project, and any Federal facilities that would be used by the project, would be located;

or

(B) That owns, operates, maintains, or uses any project facilities or any Federal facilities that would be used by the project;

Quincy Columbia Basin Irrigation District
1720 Central Ave S,
Quincy, WA 98848

² 18 CFR §4.32(a)

(iv) Every other political subdivision in the general area of the project that there is reason to believe would likely be interested in, or affected by, the application:

There are no other political subdivisions in the general area of the Project that there is reason to believe would be interested in, or affected by, the application.

(v) All Indian tribes that may be affected by the project.

Mr. Rex Buck Jr.
Priest Rapids Band of Wanapum Indians
Wanapum Heritage Center
14352 Hwy 243 S
Beverly, WA 99321

Confederated Tribes of the Coleville Reservation
PO Box 150
Nespelem, WA 99155-0150

Confederated Tribes & Bands of the Yakama Nation
PO Box 151
Toppenish, WA 98948-0151

Confederated Tribes of the Umatilla
PO Box 638
Pendleton, OR 97801-0638

Chairman
Nez Perce Tribal Executive Commission
PO Box 305
Lapwai, ID 83540-0305

Columbia River Inter-Tribal Fish Commission
729 NE Oregon St., Ste 200
Portland, OR 97232

Muckleshoot Tribe
39015 172nd Avenue SE
Auburn, WA 98092

**UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION**

PacifiCorp

)
)
)
)

Saddle Mountains Pumped
Storage Project

SUBSCRIPTION AND VERIFICATION

In witness whereof Applicant PacifiCorp has caused its name to be hereunto executed by Tim Hemstreet, PacifiCorp, Managing Director, Renewable Energy Development, this 8th day of October 2021.

State of Oregon
County of Multnomah

PACIFICORP

by: Tim Hemstreet, Managing Director, Renewable Energy Development
PacifiCorp
825 NE Multnomah, Suite 1800
Portland, OR 97232

being duly sworn, deposes and says that the contents of this Application for Preliminary Permit for the Saddle Mountains Pumped Storage Project are true to the best of his knowledge or belief. The undersigned Applicant has signed the Application this 8th day of October 2021.

Tim Hemstreet

Tim Hemstreet, PacifiCorp, Managing Director, Renewable Energy Development

Subscribed and sworn to before me, a Notary Public of the State of Oregon this 8th day of October 2021.

Kelly A. Wiggins
Kelly A. Wiggins, Notary Public

My Commission Expires 10/26/2021

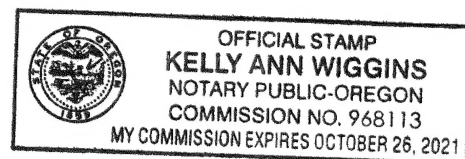


EXHIBIT 1 PROJECT DESCRIPTION

1.1 GENERAL PROJECT DESCRIPTION

The proposed Saddle Mountains Pumped Storage Project (Project) is a closed-loop, pumped-storage hydroelectric generating facility. It is PacifiCorp's intent with this application to evaluate the Project to meet current renewable energy system needs for energy storage.

The proposed Project would include:

- An upper reservoir with enough storage for operating 8 hours of electrical generation;
- A lower reservoir;
- A single powerhouse;
- Pumping/generating units with a maximum capacity of approximately 500 megawatts (MW);
- A penstock and/or tunnel connecting the upper and lower reservoirs;
- A new transmission line connecting the powerhouse switchyard with the regional transmission grid; and
- A new underground pipeline for water for construction, initial fill, and maintenance fill of the Project.

1.2 RESERVOIRS

The proposed Project would require the construction of two new reservoirs: one upper and one lower. PacifiCorp has identified two upper and lower reservoir configurations for evaluation during the preliminary term.

1.2.1 Lower Reservoir

Alternative 1

Under Alternative 1, PacifiCorp would construct a lower reservoir at an approximate elevation of 560 feet (ft) above mean sea level (msl). The lower reservoir would have a surface area of approximately 115 acres and an operational storage capacity (based on eight hours of generation) of approximately 4,000 acre-feet (ac-ft).

Alternative 2

Under Alternative 2, PacifiCorp would construct a lower reservoir at an approximate elevation of 600 ft msl. The lower reservoir would have an approximate surface area of 84 acres and an operational storage capacity (based on eight hours of generation) of approximately 4,000 acre-feet (ac-ft).

1.2.2 Proposed Upper Reservoir

Alternative 1

Under alternative 1, PacifiCorp would construct an upper reservoir near the top of the Saddle Mountains at an approximate elevation of 1,760 ft msl. The upper reservoir would have a surface area of 312 acres and store approximal 4,750 acre-feet (ac-ft) (based on 8 hours of generation) at approximately 1,200 ft of head.

Alternative 2

Under alternative 2, PacifiCorp would construct an upper reservoir near the top of the Saddle Mountains at an approximate elevation of 1,750 ft msl. The upper reservoir would have a surface area of approximately 100 acres and utilize approximately 1,200 ft of head.

The preferable reservoir configuration and location will be determined during the preliminary permit term to maximize energy production relative to development within the terrain, geology, and environmental constraints of the proposed Project area. The proposed layouts and site configurations in this Exhibit are the result of conceptual engineering studies.

1.3 EXISTING OR PROPOSED TRANSMISSION LINES

An existing PacifiCorp 230-kilovolt (kV) transmission line connects to the Bonneville Power Administration's Vantage substation north of Beverly in the Project area. Under Alternative 1, PacifiCorp would construct an approximately 9-mile, 230-kV transmission line from the powerhouse to a new PacifiCorp substation adjacent to the Vantage BPA substation that would interconnect the Project to PacifiCorp's transmission system. Under Alternative 2, PacifiCorp would construct an approximately 12.7-mile, 230-kV transmission line from the powerhouse to the proposed substation (Exhibit 3).

The new substation the Project would connect to would be built in close proximity to the Vantage substation, which was constructed in 1971. Any required upgrades beyond substation would be determined in a System Impact Study to be performed by the transmission provider.

1.4 GENERATING EQUIPMENT AND CAPACITIES

1.4.1 Generators

The turbine and generator configurations have not been finalized at this time but could potentially be three 167-MW Francis pump-turbines units or a number of units that would be most efficient for the project.

1.4.2 Penstocks/Tunnels

Depending on the alternative, penstocks, tunnels, or a combination of the two would be constructed to convey water between the upper reservoir and the powerhouse at the lower reservoir. Depending on the final configuration, the penstock or tunnel could trifurcate and deliver water to each of the three turbine units or maintain the single pipe layout to a single unit.

PacifiCorp would construct an approximately 1.5-mile tunnel for Alternative 1 and an approximately 0.6-mile tunnel for Alternative 2.

1.4.3 Powerhouse/Pump Station

The proposed powerhouse for both alternatives would be sited along the shore of the lower reservoir. A powerhouse with a generating capacity of approximately 500 MW would be constructed into the shoreline of the lower reservoir. The powerhouse would be equipped with up to three turbines for generation and three pumps to return water from the lower reservoir back to the upper reservoir via the penstock.

1.5 RESERVOIR SPILLWAYS

The Project would be a closed-loop, off-channel system that would exchange water between the upper and lower reservoirs. To eliminate the risk associated with embankment overtopping, emergency freeboard would be maintained in both reservoirs, and the two reservoirs would be similarly sized such that water from one reservoir cannot inundate and overtop the other reservoir. In addition, redundant controls would be used. The off-channel reservoirs would not capture any precipitation from outside the impoundments, and freeboard would be reserved to store precipitation within the reservoir on an annual basis until it is offset by evaporation.

1.6 AVERAGE ANNUAL ENERGY PRODUCTION

The primary operational mode of this Project would be to support and balance PacifiCorp's system energy needs while allowing for the incorporation of additional variable renewable generation resources such as wind and solar. The Project would pump water from the lower reservoir during times when surplus energy from other resources is available and generate electricity during periods of high demand. Depending on customer energy demands and available energy production on PacifiCorp's system, the Project could pump and generate multiple times in a 24-hour period.

The total estimated annual energy production would be 1,460 gigawatt-hours (GWh). The installed capacity of the Project would be 500 MW. The available hydraulic head as proposed would be 1,200 feet and the daily output (based on a daily fill and run cycle) would be 4,000 megawatt-hours (MWh). The Project would have an anticipated 80% efficiency rating, so daily pumping energy (based on a daily fill and run cycle) would be 5,000 MWh. The upper reservoir would be sized to provide enough active storage for an 8-hour water supply to the powerhouse.

1.7 LANDS OF THE UNITED STATES

The proposed Project is located in Grant County, Washington. The locations identified by Public Land Survey System (PLSS) township, range, and section of the lands of the United States within the proposed Project boundary are presented in Table 1, depicted in Exhibit 3, and identified in Form FERC-587 enclosed with this application.

Table 1. PLSS location of lands of the United States within the proposed Project boundary

PLSS Township and Range	PLSS Section	Subdivision of Section	Federal Acres within Proposed Project Boundary	Agency Jurisdiction
15N 23E	2	NE, SE, SW	148.0	FWS
15N 24E	2	Gov Lots 1, 2, 3, 4	167.9	BLM
15N 24E	10	NE	84.5	BLM
15N 24E	12	NW	85.1	BLM
15N 25E	4	Gov Lots 1, 2, 3, 4, NE, NW, SE, SW	663.1	BLM
16N 23E	15	NE, NW, SE, SW	330.2	USBR
16N 23E	16	NW	40.7	USBR
16N 23E	22	NW, SE, SW	242.5	USBR
16N 23E	23	SW	40.3	USBR
16N 23E	25	NW	40.5	USBR
16N 23E	27	NE, SE	120.6	USBR
16N 23E	35	NE, NW, SE	328.0	USBR
16N 24E	26	SW	77.2	FWS
16N 24E	28	NE, NW, SE	120.8	FWS
16N 24E	30	L2, NE, N2, SE	234.6	FWS
16N 24E	34	SE, SW	170.8	FWS
16N 25E	27	NE, NW, SE, SW	416.5	FWS
16N 25E	28	NE, NW, SE	122.6	FWS
16N 25E	30	Gov Lots 2, 3, NE, NW, SE, SW	312.0	FWS
16N 25E	32	SE, SW	158.0	FWS
16N 25E	33	SE, SW	296.5	BLM
Total			4,544.8	

Note: FWS = U.S. Fish and Wildlife Service; BLM = Bureau of Land Management; USBR = U.S. Bureau of Reclamation

No areas within or in the vicinity of the Project boundary labeled on Exhibit 3 are included or have been designated for study for inclusion in the National Wild and Scenic Rivers System.

No areas within the Project boundary labeled on Exhibit 3, have been: (1) designated as wilderness area; (2) recommended for designation as wilderness area; or (3) designated as wilderness study area.

1.8 REGIONAL WATER SOURCES

The proposed Project is a closed-loop, off-channel system that would circulate the same water for pumping and generation. Water would be required to initially construct and fill the reservoirs, and long-term, make-up water would be required to account for losses due to evaporation and impoundment leakage. Water is anticipated to be sourced from one or more of the following sources: surface water, the Columbia River and/or its tributaries; groundwater, or storage water. PacifiCorp will further investigate potential water supply sources during the term of the preliminary permit.

1.9 PUBLIC INTEREST

As a rate-regulated electric utility, PacifiCorp serves its customers under a cost-of-service model through which energy solutions are delivered for customers at prices that are below national and regional averages. PacifiCorp is the largest grid operator in the western United States and serves the energy needs of 2 million customers across six western states through owned and contracted energy resources. PacifiCorp shares a vision with its customers and communities in which clean energy from across the West powers jobs and innovation. Over the past several years, PacifiCorp has outlined an ambitious path to substantially increase its renewable energy capacity, evolve its existing portfolio, and connect supply with demand through an expanded, modernized transmission system.

The proposed Project would support the public interest by advancing PacifiCorp's capability to serve customers with clean, affordable and reliable energy service by providing renewable energy storage and carbon-free generation of electricity. Storage resources such as the proposed Project will be increasingly necessary to balance the increasing percentage of wind and solar resources on PacifiCorp's system with dynamic customer energy needs.

In addition to the ability of the Project to support progress towards a clean energy future, the proposed Project would create job opportunities during construction and support long-term operations and maintenance positions during the anticipated 50-year life of the facility. The investments in the project would also support the local community through an expanded tax base and sales and use taxes resulting from construction.

EXHIBIT 2 DESCRIPTION OF STUDIES

2.1 STUDY PROCESS

Prior to submittal of this preliminary permit application, PacifiCorp reviewed existing data sources and performed conceptual engineering analyses. PacifiCorp proposes to conduct the studies listed below to further evaluate the technical, economic, financial, and environmental feasibility of the proposed Project in support of an application for license.

These studies and analyses will provide critical inputs to the decision process to proceed with a Notice of Intent and a Preliminary Application Document.

The implementation of studies will be conducted in accordance with applicable federal and state permitting requirements. Studies will be conducted so as not to affect cultural resources and endangered species, and with only minor alterations to lands and waters. Any land altered or disturbed will be adequately restored. Any necessary permits or landowner permissions needed will be obtained prior to initiating the studies described here.

PacifiCorp's professional staff along with qualified third-party consultants will complete the preliminary studies described below. PacifiCorp staff and consultant support may include civil, mechanical, electrical, and geotechnical engineers; cultural resource and recreation professionals; biologists; visual resource professionals; hydrologists; and water quality professionals.

2.2 PRELIMINARY STUDIES TO BE COMPLETED

2.2.1 Cultural Resources

A search of the State Historic Preservation Office database will be performed to identify previous cultural resource investigations and recorded sites within the Project study area. Information pertinent to the Project will be summarized, and a detailed review will be conducted to determine additional studies that may be appropriate. The cultural resource review will be coordinated with the State Historic Preservation Office, affected Indian tribes, and appropriate Federal agencies. Additional information on cultural resources in the Project study area may be provided by these entities. The results of the review will be used to prepare the discussion of resources and potential impacts, along with study plans that could be proposed in a Preliminary Application Document. If implementation of preliminary studies identified below results in ground disturbance, the ground disturbing activity will be reviewed by a professional archaeologist for its potential to affect cultural resources. Field investigation and/or protection measures may be required before the ground disturbing activity can proceed.

2.2.2 Energy Needs and Economic Analysis

An energy needs analysis of the proposed Project's ability to support variable renewable resources and contribute to balancing energy supply and demands will be performed. The analysis will include estimates of power production and renewable power integration. Long-term Project economics will be analyzed that will include cost data from other studies proposed in this

document. In addition, the Project may be evaluated in the Applicant's Integrated Resource Plan, which would evaluate the Project's ability to contribute to a least-cost, least-risk resource portfolio.

2.2.3 Engineering

Preliminary engineering designs will be prepared for the powerhouse/pump station, upper and lower intake/outlet structures, upper and lower reservoirs, transmission lines, dam and dikes, and penstock tunnels to determine the feasibility, estimated costs and construction timelines.

2.2.4 Fisheries Studies

A literature review and annotated bibliography of existing fisheries studies and data will be prepared. This information will be used to prepare the discussion of resources and potential impacts, along with study plans that could be proposed in a Preliminary Application Document.

2.2.5 Sensitive Plants

Plant communities will be delineated within areas potentially affected by Project development. In these same areas, surveys will be conducted for sensitive plants listed in State and Federal databases. This information will be used to prepare the discussion of resources and potential impacts, along with study plans that could be proposed in a Preliminary Application Document.

2.2.6 Terrestrial and Avian Species

Wildlife habitat will be delineated within areas potentially affected by Project development. State and Federal databases will be queried to develop a list of potential threatened, endangered, or sensitive species potentially occurring in the Project area. This information will be used to prepare the discussion of resources and potential impacts, along with study plans that could be proposed in a Preliminary Application Document.

2.2.7 Water Quality

A literature review and annotated bibliography of water quality studies and data sources for the site will be prepared. This information will be used to prepare the discussion of resources and potential impacts, along with study plans or modeling that could be proposed in a Preliminary Application Document.

2.2.8 Geotechnical

A geotechnical evaluation will be completed to assess existing geological, seismic, aerial, and soil data. An analysis will be completed of the suitability of area soil and rock for use as construction material and as foundations. Additional borings, soundings, soil sampling, and laboratory testing of materials may be conducted as needed to inform preliminary engineering studies.

2.2.9 Land Survey

A topographic and boundary survey of the proposed Project area will be completed. This information will be used to prepare the preliminary engineering plans and update the proposed Project boundary and land ownership information.

2.2.10 Recreation

An assessment of recreation uses in the Project area and the potential Project effects on recreation will be prepared. This information will be used in the discussion of resources and potential impacts, along with study plans that could be proposed in a Preliminary Application Document.

2.2.11 Transportation

An analysis of the area roadways and their capacity to support construction and operation of the Project will be completed.

2.2.12 Transmission Interconnection Study

Consistent with the procedures outlined in Applicant's Open Access Transmission Tariff filed with FERC, transmission interconnection studies will be completed to determine the feasibility of interconnecting the proposed Project and any network upgrades that may be necessary, and their associated cost. The interconnection studies will determine the location, number of circuits, voltage, and configuration of the Project's interconnection with the regional utility network.

2.2.13 Visual Resources

A baseline evaluation of existing visual resources at the Project site and from key observation points will be prepared. Visual simulations will be prepared from key observation points that incorporate Project structures including the powerhouse/pump station, transmission lines, dam, and upper reservoir. The visual simulations and the baseline will be used to identify preliminary issues or accommodations needed in the preliminary engineering work. This information will be used to prepare the discussion of resources and preliminary issues in a Preliminary Application Document.

2.3 ACCESS TO CONDUCT STUDIES

No new road construction is proposed for the purpose of conducting the studies outlined in this document. If geotechnical and engineering studies proposed in this document require additional temporary access routes, those routes and their restoration will be coordinated with federal and state land managers in addition to any local landowners.

2.4 NEW DAM CONSTRUCTION

PacifiCorp proposes construction of a new upper reservoir. As geotechnical and engineering work proceeds and the need for additional field investigations is identified, the Applicant will submit investigation plans to FERC and the landowner(s).

Information about field investigation will be submitted following the guidelines in 18 CFR §4.81 that require the following:

- (i) A description, including the approximate location, of any field study, test, or other activity that may alter or disturb lands or waters in the vicinity of the proposed project, including floodplains and wetlands; measures that would be taken to minimize any such disturbance; and measures that would be taken to restore the altered or disturbed areas; and
- (ii) A proposed schedule (a chart or graph may be used), the total duration of which does not exceed the proposed term of the permit, showing the intervals at which the studies, investigations, tests, and surveys, identified under this paragraph are proposed to be completed.

2.5 SCHEDULE FOR STUDIES

The schedule for completion of the studies outlined in this document is presented in the table below. It is the intent of PacifiCorp that these studies be completed along this timeline. This schedule assumes that a preliminary permit will be issued to PacifiCorp by January 1, 2022.

Permit Issued	January 2022
Stakeholder Engagement and Perform Studies	January 2022–June 2024
Complete Initial Environmental and Economic Analysis	July 2025
File NOI and PAD	January 2026

2.6 STUDY COSTS

The estimated costs of carrying out the scope of work described in Exhibit 2 is almost \$3.15 million, allocated as follows.

Study	Estimated Costs	Target Completion Date
Energy Needs and Economic Analysis	\$100K	July 2023
Geotechnical	\$500K	September 2024
Engineering	\$2M	June 2024
Land Survey	\$100K	July 2024
Cultural	\$50K	October 2024
Transmission Interconnection	\$200K	November 2024
Fisheries	\$75K	July 2025

Study	Estimated Costs	Target Completion Date
Water Quality	\$75K	July 2025
Recreation	\$50K	July 2025

2.7 FINANCIAL SOURCES

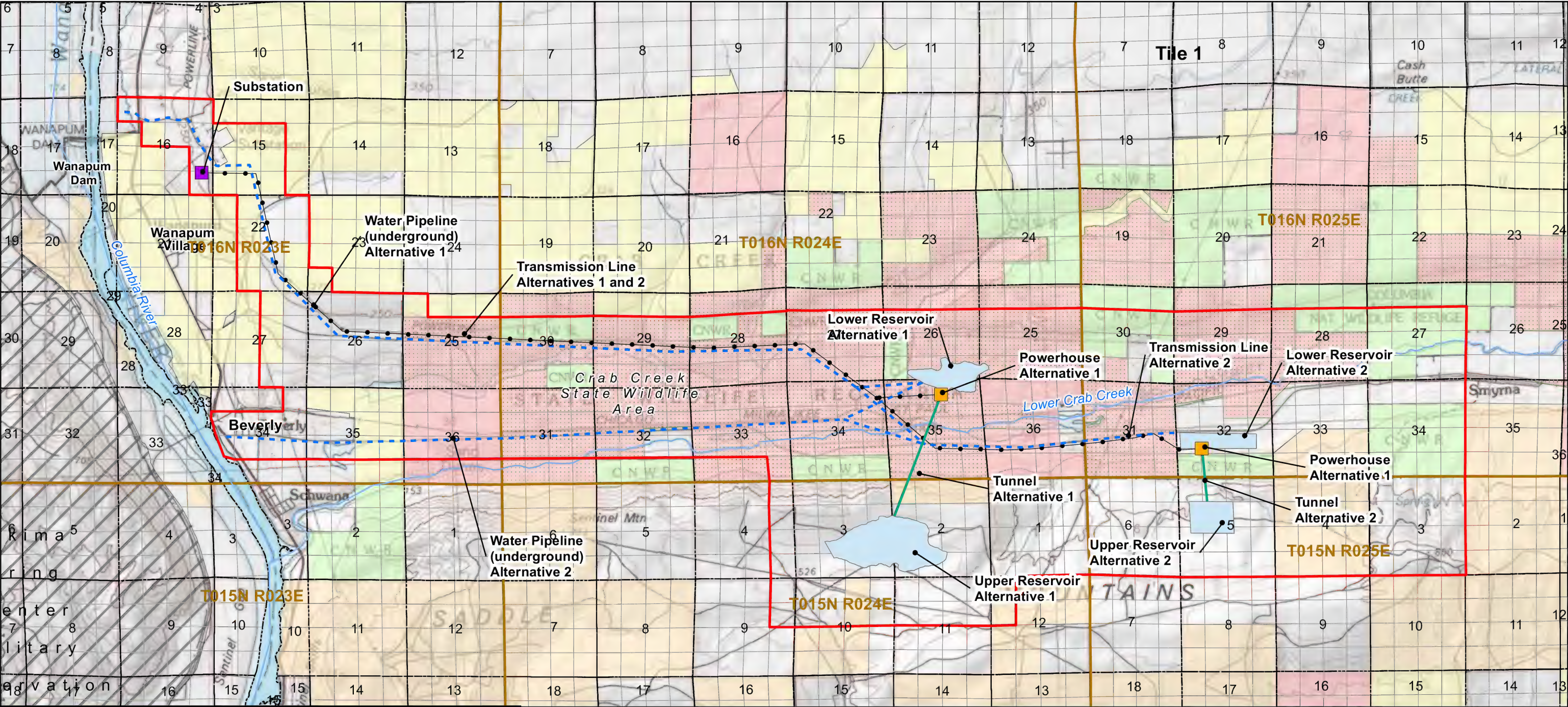
PacifiCorp will self-finance the studies, investigations, and consultation activities identified in this application.

Revenues are generated by PacifiCorp through sales of electricity to wholesale and retail customers. Rates for retail energy sales are set by state public utility commissions in accordance with rate structures and public utility policies so that, in general, costs of service are covered by operating revenue. Operating revenue and energy costs are the key drivers of PacifiCorp's results of operations as they encompass retail and wholesale electricity revenue and the direct costs associated with providing electricity to customers. PacifiCorp's net income for the year ended December 31, 2020, was \$741 million on operating revenues of \$5.3 billion. PacifiCorp's operating revenue increased \$273 million for 2020 compared to 2019 due to higher retail revenue of \$250 million and higher wholesale and other revenue of \$23 million. For the same period, net income decreased by \$32 million for 2020 compared to 2019, primarily due to increased operation and maintenance expenses.

PacifiCorp's revenues are sufficient to meet the costs identified in this application. Additional financial data are presented in Berkshire Hathaway Energy Company's December 31, 2020, annual Form 10-K report available at: https://www.brkenenergy.com/assets/upload/financial-filing/20201231_BHE%20Form%2010-K.pdf.

EXHIBIT 3 PROJECT MAPS

Exhibit 3 must include a map or series of maps, to be prepared on United States Geological Survey topographic quadrangle sheets or similar topographic maps of a State agency, if available. *The maps need not conform to the precise specifications of §4.39(a) and (b).*



Legend

Project Features

- Reservoir
- Powerhouse
- Substation
- Transmission Line
- Tunnel
- Water Pipeline

PLSS Township

- PLSS First Division
- PLSS Second Division

Land Ownership

- BLM
- Reclamation
- DOD
- FWS
- State
- State Wildlife Area
- Private
- PacifiCorp

Saddle Mountains Pumped Storage Project Overview

0 0.75 1.5 3 Miles

1:65,000

FERC Form 587

LAND DESCRIPTION**Public Land States
(Rectangle Survey System Lands)**

1. STATE WA 2. FERC PROJECT NO. N/A
 3. TOWNSHIP 15N RANGE 24E MERIDIAN Willamette

4. Check one:

 License
 x Preliminary Permit

Check one:

 x Pending
 Issued:

If preliminary permit is issued, give expiration date: not applicable

5. EXHIBIT SHEET NUMBER OR LETTERS

Section 6	5	4	3	2	1
		Private Exhibit 3	Private Exhibit 3	BLM/Private Exhibit 3	Private Exhibit 3
7	8	9	10	11	12
		Private Exhibit 3	BLM/Private Exhibit 3	Private Exhibit 3	BLM Exhibit 3
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6. Contact's name Tim HemstreetTelephone No. 503-813-6170Date submitted October 13, 2021

LAND DESCRIPTION**Public Land States
(Rectangle Survey System Lands)**1. STATE WA 2. FERC PROJECT NO. N/A3. TOWNSHIP 15N RANGE 25E MERIDIAN Willamette4. Check one:
☐ License
☒ Preliminary PermitCheck one:
☒ Pending
☐ Issued: _____If preliminary permit is issued, give expiration date: not applicable**5. EXHIBIT SHEET NUMBER OR LETTERS**

Section 6	5	4	3	2	1
Private Exhibit 3	Private Exhibit 3	BLM Exhibit 3	Private Exhibit 3		
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6. Contact's name Tim HemstreetTelephone No. 503-813-6170Date submitted October 13, 2021

LAND DESCRIPTION**Public Land States
(Rectangle Survey System Lands)**

1. STATE WA 2. FERC PROJECT NO. N/A
 3. TOWNSHIP 16N RANGE 23E MERIDIAN Willamette

4. Check one:
☐ License
☒ Preliminary Permit

Check one:
☒ Pending
☐ Issued: _____

If preliminary permit is issued, give expiration date: not applicable

5. EXHIBIT SHEET NUMBER OR LETTERS

Section 6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
		BOR/Private Exhibit 3	BOR/Private Exhibit 3		
19	20	21	22	23	24
			BOR/Private Exhibit 3	BOR Exhibit 3	
30	29	28	27	26	25
			BOR/Private Exhibit 3	Private Exhibit 3	BOR/State Exhibit 3
31	32	33	34	35	36
			Private Exhibit 3	BOR/Private Exhibit 3	State Exhibit 3

6. Contact's name Tim Hemstreet

Telephone No. 503-813-6170

Date submitted October 13, 2021

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Section 6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30 USFWS/State Exhibit 3	29 State Exhibit 3	28 USFWS/State Exhibit 3	27 State Exhibit 3	26 USFWS/State Exhibit 3	25 State Exhibit 3
31 State Exhibit 3	32 State/Private Exhibit 3	33 State Exhibit 3	34 USFWS/State Exhibit 3	35 State Exhibit 3	36 State/Private Exhibit 3

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7	8	9	10	11	12
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30 USFWS/State/ Private Exhibit 3	29 State Exhibit 3	28 USFWS/State Exhibit 3	27 USFWS/Private Exhibit 3	26	25
31 State/Private Exhibit 3	32 USFWS/State/ Private Exhibit 3	33 BLM/State/ Private Exhibit 3	34 USFWS/Private Exhibit 3	35	36

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Document Content(s)

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